

WHAT IS CLAIMED IS:

Sub  
A'

5 1. A liquid crystal display apparatus including a liquid crystal, a thin film transistor panel driving the liquid crystal and an opposing substrate, said TFT panel having a display area including a plurality of signal lines and a plurality of scanning lines arranged intersecting with each other and a plurality of pixel transistors arranged at the intersecting portions, and a driving circuit area including a plurality of driving transistors, wherein

10 a gate interconnection for said driving transistors formed in said driving circuit area is arranged along a folded line including a first line linearly extending along a first direction, a second line linearly extending along a second direction different from said first direction, and a bent portion connecting said first and second lines; and wherein

15 said driving transistors are arranged along said first and second lines, such that channel regions of said transistors do not overlap said bent portion when viewed two-dimensionally.

2. The liquid crystal display apparatus according to claim 1, wherein direction from an end point closer to the display area to an end point farther from the display area of each of the lines are reversed in the first and second lines, when viewed from the side of said display area.

3. The liquid crystal display apparatus according to claim 1, wherein each of said first and second lines consists of a smaller folded line.

4. The liquid crystal display apparatus according to claim 1, wherein said bent portion includes a line connecting said first and second lines and intersecting almost orthogonally with a boundary between said display area and said driving circuit area.

5. The liquid crystal display apparatus according to claim 1, wherein said bent portion includes a portion where said first and second

Sub  
A1

lines are connected directly with an angle.

6. The liquid crystal display apparatus according to claim 1, wherein direction of a width of the channel region of said driving transistors is arranged to be parallel to said first and second lines.

7. The liquid crystal display apparatus according to claim 1, wherein said display area is rectangular, and said driving circuit area is arranged not to extend beyond a space between lines extended from opposing two parallel sides of said rectangular display area.

8. The liquid crystal display apparatus according to claim 1, wherein a distance between one of said driving transistors and another of said driving transistors neighboring and positioned nearest to said one driving transistor viewed from the side of said display area is longer than an interval of pitch stripes that are traces of scanning of laser beam irradiation.

9. The liquid crystal display apparatus according to claim 1, wherein in the channel region of each of said driving transistors, a distance between a corner of the channel region nearest to said display area and a corner of the channel region farthest from said display area viewed from the side of said display area is longer than an interval of pitch stripes that are traces of scanning of laser beam irradiation.

10. A thin film transistor panel for driving a liquid crystal, having a display area including a plurality of signal lines and a plurality of scanning lines arranged intersecting with each other and a plurality of pixel transistors arranged at the intersecting portions, wherein

a gate interconnection for said driving transistors formed in said driving circuit area is arranged along a folded line including a first line linearly extending along a first direction, a second line linearly extending along a second direction different from said first direction, and a bent portion connecting said first and second lines; and wherein

$$Sub_{A'}$$

~~said driving transistors are arranged along said first and second lines such that channel regions of said transistors do not overlap said bent portion when viewed two-dimensionally.~~